

**Field Manual
No. 23-65**

**HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 19 June 1991**

**BROWNING MACHINE GUN
CALIBER .50 HB, M2**

CONTENTS

	page
PREFACE	iv
CHAPTER 1. INTRODUCTION	
1-1. Training Strategy.....	1-1
1-2. Description.....	1-5
1-3. Components	1-8
1-4. Ground Mounts.....	1-9
1-5. Accessories for Ground Mounts	1-12
1-6. Vehicular Mounts	1-14
1-7. Ammunition.....	1-17
CHAPTER 2. MAINTENANCE	
2-1. Safety.....	2-1
2-2. General Disassembly.....	2-2
2-3. Cleaning, Inspection, and Lubrication	2-9
2-4. Maintenance Procedures	2-12
2-5. Maintenance Under NBC Conditions.....	2-12
2-6. General Assembly.....	2-12
2-7. Function Check.....	2-17
CHAPTER 3. OPERATION AND FUNCTIONING	
3-1. Operation	3-1
3-2. Loading Procedures	3-1
3-3. Unloading Procedures.....	3-3
3-4. Cycle of Functioning.....	3-4
3-5. Left-Hand Feed	3-11
3-6. Headspace and Timing	3-12

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

***This publication supersedes FM 23-65, 19 May 1972, and TC 23-65-1, 19 September 1984 .**

	page
CHAPTER 4. PERFORMANCE PROBLEMS AND DESTRUCTION	
4-1. Malfunctions	4-1
4-2. Stoppages.....	4-1
4-3. Immediate Action.....	4-2
4-4. Remedial Action.....	4-3
4-5. Destruction Procedures	4-5
CHAPTER 5. MARKSMANSHIP TRAINING	
Section I. Planning	5-1
5-1. Objectives	5-1
5-2. Commander's Responsibilities	5-1
5-3. Phases of Training.....	5-2
5-4. Sustainment Training.....	5-2
5-5. Remedial Training.....	5-2
Section II. Fundamentals.....	5-3
5-6. Firing Positions	5-3
5-7. Dry Fire Training	5-6
5-8. Range Determination.....	5-12
5-9. Observation and Adjustment of Fire.....	5-16
5-10. Fire Commands	5-18
5-11. Crew Exercises.....	5-22
5-12. Machine Gun Fundamental Skills Test	5-36
Section III. Basic Marksmanship	5-36
5-13. Concept of Zeroing/Targeting.....	5-36
5-14. 10-Meter Firing Exercise	5-41
5-15. Transition Day Firing Exercise	5-41
5-16. NBC Firing	5-41
5-17. Night Fire Exercise	5-41
Section IV. Advanced Gunnery	5-41
5-18. Objectives	5-42
5-19. Tracking and Leading Exercises.....	5-42
5-20. Mounted Firing Exercise	5-45
5-21. Mounted NBC Firing Exercise.....	5-45
5-22. Predetermined Firing Exercise.....	5-45
CHAPTER 6. COMBAT TECHNIQUES OF FIRE	
Section I. Fundamentals.....	6-1
6-1. Characteristics of Fire	6-1
6-2. Classes of Fire	6-3
Section II. Fire Control	6-7
6-3. Methods of Fire Control	6-8
6-4. Targets and Their Engagement	6-8
6-5. Overhead Fire	6-14
6-6. Defilade Positions.....	6-18
6-7. Methods of Laying the Gun for Defilade Firing	6-20
6-8. Final Protective Fires.....	6-21
6-9. Application of Fire.....	6-22
6-10. Fire Adjustment	6-23
6-11. Antiaircraft Gunnery	6-25

	Page
Section III. Limited Visibility Conditions	6-26
6-12. Difficulties	6-26
6-13. Terminology.....	6-26
6-14. Target Engagement.....	6-27
6-15. Fire Control.....	6-28
6-16. Preplanned Fires	6-28
6-17. NBC Considerations.....	6-29
 CHAPTER 7. TRAIN THE TRAINER PROGRAM	
7-1. Concept	7-1
7-2. Trainer Certification Program.....	7-2
7-3. Responsibilities and Duties of the Trainer	7-3
 APPENDIX A. SAFETY	A-1
APPENDIX B. TRAINING AIDS AND DEVICES	B-1
APPENDIX C. RANGES AND TRAINING EXERCISES.....	C-1
APPENDIX D. FIGHTING POSITIONS	D-1
APPENDIX E. RANGE CARDS	E-1
APPENDIX F. AERIAL DEFENSE.....	F-1
 GLOSSARY.....	Glossary-1
REFERENCES.....	References-1
INDEX.....	Index-1